


```
CREATE USER 'app_user'@'10.0.%'  
  IDENTIFIED BY 'strong_password_here';  
  
GRANT SELECT ON app_interface.v_customers TO 'app_user'@'10.0.%';  
GRANT EXECUTE ON PROCEDURE app_interface.sp_update_customer_city  
  TO 'app_user'@'10.0.%';  
  
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```

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```
CREATE VIEW app_interface.v_customer_contacts AS  
SELECT  
  customer_id,  
  CONCAT(LEFT(email, 3), '***@***.',  
        SUBSTRING_INDEX(email, '.', -1)) AS masked_email,  
  CONCAT('***-***-', RIGHT(phone, 4)) AS masked_phone  
FROM production.customers;
```

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```
CREATE PROCEDURE app_interface.sp_search_customers(  
  IN p_search_term VARCHAR(100)  
)  
SQL SECURITY DEFINER  
BEGIN  
  DECLARE v_count INT;  
  
  SELECT COUNT(*) INTO v_count  
  FROM production.rate_limit  
  WHERE user = CURRENT_USER();
```

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AND action = 'search'
AND created_at > NOW() - INTERVAL 1 MINUTE;

IF v_count > 10 THEN
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Rate limit exceeded: max 10 searches/minute';
END IF;

INSERT INTO production.rate_limit(user, action, created_at)
VALUES (CURRENT_USER(), 'search', NOW());

SELECT customer_id, first_name, last_name, city
FROM production.customers
WHERE last_name LIKE CONCAT(p_search_term, '%')
LIMIT 50;
END;

```

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TEMPORARY TABLE DEFINER MariaDB / MySQL

schema DEFINER SQL

Medium